I. CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A computer-implemented method for resolving prerequisites for

client devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

determining, on a server device, prerequisites for an OSGi bundle to be loaded on a client

device, the prerequisites comprising a set of all OSGi bundles that are necessary for utilizing the

OSGi bundle:

communicating, prior to communicating any of the OSGi bundles to the client device, a

list of the prerequisites from the server device to the client device;

receiving a response from the client device, wherein the response identifies any resource

limitations of the client device determined by the client device based on a comparison of the list

of the prerequisites and current OSGi package and OSGi service interface resources of the client

device, the resource limitations comprising all prerequisites of the list of the prerequisites that

are not currently present on the client device;

automatically recursively resolving via the server device, [[upon]] in response to

determining that the list of the prerequisites that are not currently present on the client device

would not require more client device OSGi package and OSGi service interface resources than

the current OSGi package and OSGi service interface resources of the client device, the

prerequisites by identifying a final set of OSGi bundles on the server device that fulfills the

prerequisites within the resource limitations of the client device; and

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substituting via the server device, [[upon]] in response to determining that the list of the

prerequisites that are not currently present on the client device would require more client device

OSGi package and OSGi service interface resources than the current OSGi package and OSGi

service interface resources of the client device, at least one other OSGi bundle that operates

within the resource limitations of the client device for one of the OSGi bundles and one of the

prerequisites of the list of the prerequisites that are not currently present on the client device.

(Cancelled)

3. (Original) The method of claim 1, further comprising loading the final set of OSGi

bundles on the client device if the prerequisites are completely resolved.

(Currently Amended) The method of claim 3, wherein the loading comprises the server

device instructing the client device to load the final set of OSGi bundles in a particular order.

5. (Previously Presented) The method of claim 1, wherein the prerequisites comprise at least

one item selected from a group consisting of a service, a package and a computer resource

needed by client device.

6. (Currently Amended) The method of claim 1, further comprising caching information

derived from the response on the server device.

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7. (Currently Amended) The method of claim 1, wherein the method is applied in the

presence of a low bandwidth or high cost connection between the server device and the client

device.

8. (Currently Amended) The method of claim 1, wherein the final set of OSGi bundles

include OSGi bundles that are identified from a repository accessed by the server device.

9. (Currently Amended) The method of claim 1, further comprising:

receiving the prerequisites on the client device;

determining whether the client device has the prerequisites, wherein any of the

prerequisites that the client device does not have represent the resource limitations; and

sending the response to the server device, wherein the response includes the resource

limitations.

10. (Currently Amended) A computer-implemented method for recursively resolving

prerequisites for client devices in an Open Service Gateway Initiative (OSGi) framework,

comprising:

determining, on a server device, prerequisites for an OSGi bundle to be loaded on a client

device, the prerequisites comprising a set of all OSGi bundles that are necessary for utilizing the

OSGi bundle:

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communicating, prior to communicating any of the OSGi bundles to the client device, a

list of the prerequisites from the server device to the client device;

receiving a response from the client device, wherein the response identifies any resource

limitations of the client device determined by the client device based on a comparison of the list

of the prerequisites and current OSGi package and OSGi service interface resources of the client

device, the resource limitations comprising all prerequisites of the list of the prerequisites that

are not currently present on the client device;

caching information derived from the response on the server device;

automatically recursively resolving via the server device, [[upon]] in response to

determining that the list of the prerequisites that are not currently present on the client device

would not require more client device OSGi package and OSGi service interface resources than

the current OSGi package and OSGi service interface resources of the client device, the

prerequisites by recursively identifying a final set of OSGi bundles on the server device that

fulfills the prerequisites within the resource limitations of the client device; and

substituting via the server device, [[upon]] in response to determining that the list of the

prerequisites that are not currently present on the client device would require more client device

OSGi package and OSGi service interface resources than the current OSGi package and OSGi

service interface resources of the client device, at least one other OSGi bundle that operates

within the resource limitations of the client device for one of the OSGi bundles and one of the

prerequisites of the list of the prerequisites that are not currently present on the client device.

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11. (Previously Presented) The method of claim 10, further comprising loading the final set

of OSGi bundles on the client device if the prerequisites are completely resolved.

12. (Currently Amended) The method of claim 11, wherein the loading comprises the server

device instructing the client device to load the final set of OSGi bundles in a particular order.

13. (Previously Presented) The method of claim 10, wherein the prerequisites comprise at

least one item selected from a group consisting of a service, a package and a computer resource

needed by client device.

14. (Currently Amended) The method of claim 10, wherein the method is applied in the

presence of a low bandwidth or high cost connection between the server device and the client

device.

15. (Currently Amended) The method of claim 10, further comprising:

receiving the prerequisites on the client device;

determining whether the client device has the prerequisites, wherein any of the

prerequisites that the client device does not have represent the resource limitations; and

sending the response to the server device, wherein the response includes the resource

limitations.

16. (Currently Amended) A computerized system for resolving prerequisites for client devices in an Open Service Gateway Initiative (OSGi) framework, comprising:

a memory that stores OSGi bundle information at a server device; and

a processor programmed to execute:

a prerequisite computation system for determining, on [[a]] the server device,

prerequisites for an OSGi bundle to be loaded on a client device, the prerequisites

comprising a set of all OSGi bundles that are necessary for utilizing the OSGi bundle;

a communication system for communicating, prior to communicating any of the

OSGi bundles to the client device, a list of the prerequisites from the server device to the

client device, and for receiving a response from the client device, wherein the response

identifies any resource limitations of the client device determined by the client device

based on a comparison of the list of the prerequisites and current OSGi package and

OSGi service interface resources of the client device, the resource limitations comprising

all prerequisites of the list of the prerequisites that are not currently present on the client

device: and

a prerequisite resolution system for:

automatically recursively resolving via the server device, [[upon]] in

response to determining that the list of the prerequisites that are not currently

present on the client device would not require more client device OSGi package

and OSGi service interface resources than the current OSGi package and OSGi

service interface resources of the client device, the prerequisites by identifying a

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final set of OSGi bundles stored within the memory [[on]] at the server device

that fulfills the prerequisites within the resource limitations of the client device;

and

substituting via the server device, [[upon]] in response to determining that

the list of the prerequisites that are not currently present on the client device

would require more client device OSGi package and OSGi service interface

resources than the current OSGi package and OSGi service interface resources of

the client device, at least one other OSGi bundle that operates within the resource

limitations of the client device for one of the OSGi bundles and one of the

prerequisites of the list of the prerequisites that are not currently present on the

client device.

17. (Cancelled)

18. (Currently Amended) The system of claim 16, where the processor is further comprising

programmed to execute a bundle loading system for loading the final set of OSGi bundles on the

client device if the prerequisites are completely resolved.

19. (Original) The system of claim 18, wherein the bundle loading system comprises an

instruction passing system for instructing the client device to load the final set of OSGi bundles

in a particular order.

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20. (Previously Presented) The system of claim 16, wherein the prerequisites comprise at

least one item selected from a group consisting of a service, a package and a computer resource

needed by client device.

21. (Currently Amended) The system of claim 16, where the processor is further eomprising

programmed to execute a response caching system for caching information derived from the

response within the memory at [[on]] the server device.

22. (Currently Amended) The system of claim 16, where the memory comprises a repository

and wherein the final set of OSGi bundles includes OSGi bundles that are identified from [[a]]

the repository accessed by the server device.

23. (Currently Amended) The system of claim 16, where the processor is further comprising

programmed to process the response generated via:

an analysis system executing on the client device for determining that determines whether

the client device has the prerequisites, wherein any prerequisites that the client device does not

have are identified as the resource limitations; and

a response system for sending that sends the response from the client device to the server

device.

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24. (Currently Amended) The system of claim 16, wherein the system uses SyncML DM

protocol for communication between the client device and the server device.

25. (Currently Amended) A program product stored on a recordable storage medium and

executed by a computer for resolving prerequisites for clients devices in an Open Service

Gateway Initiative (OSGi) framework, comprising:

program code for determining, on a server device, prerequisites for an OSGi bundle to be

loaded on a client device, the prerequisites comprising a set of all OSGi bundles that are

necessary for utilizing the OSGi bundle;

program code for communicating, prior to communicating any of the OSGi bundles to the

client device, a list of the prerequisites from the server device to the client device, and for

receiving a response from the client device, wherein the response identifies any resource

limitations of the client device determined by the client device based on a comparison of the list

of the prerequisites and current OSGi package and OSGi service interface resources of the client

device, the resource limitations comprising all prerequisites of the list of the prerequisites that

are not currently present on the client device;

program code for automatically recursively resolving via the server device, [[upon]] in

response to determining that the list of the prerequisites that are not currently present on the

client device would not require more client device OSGi package and OSGi service interface

resources than the current OSGi package and OSGi service interface resources of the client

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device, the prerequisites by identifying a final set of OSGi bundles on the server device that

fulfills the prerequisites within the resource limitations of the client device; and

program code for substituting via the server device, [[upon]] in response to determining

that the list of the prerequisites that are not currently present on the client device would require

more client device OSGi package and OSGi service interface resources than the current OSGi

package and OSGi service interface resources of the client device, at least one other OSGi

bundle that operates within the resource limitations of the client device for one of the OSGi

bundles and one of the prerequisites of the list of the prerequisites that are not currently present

on the client device.

(Cancelled)

27. (Original) The program product of claim 25, further comprising program code for loading

the final set of OSGi bundles on the client device if the prerequisites are completely resolved.

28. (Original) The program product of claim 27, wherein the program code for loading

comprises program code for instructing the client device to load the final set of OSGi bundles in

a particular order.

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29. (Previously Presented) The program product of claim 25, wherein the prerequisites

comprise at least one item selected from a group consisting of a service, a package and a

computer resource needed by client device.

30. (Currently Amended) The program product of claim 25, further comprising program code

for caching the information derived from the response on the server device.

31. (Currently Amended) The program product of claim 25, wherein the final set of OSGi

bundles includes OSGi bundles that are identified from a repository accessed by the server

device.

32. (Currently Amended) The program product of claim 25, further comprising:

program code for determining whether the client device has the prerequisites, wherein

any prerequisites that the client device does not have are identified as the resource limitations;

and

program code for sending the response from the client device to the server device.